

A B S T R A C T

5 The invention relates to a varnish for winding
wires, the varnish comprising a copolymer obtained from a
thermoplastic or thermosetting resin and containing units
10 derived from silane, and a mineral filler selected from
compounds of B, Al, Ti, Zn, Zr, Cr, Fe, silicates, and
mixtures thereof. The resin is selected from polyamide
imide (PAI), polyester imide (PEI), polyimide (PI),
15 polyester (PE), polyurethane (PU), and polyvinylacetal
(PVA). The varnish makes it possible to obtain winding
wires of lifetime that is increased by having improved
ability to withstand partial discharges and voltage
peaks, even at high temperatures. The invention is
applicable to manufacturing coils, in particular for
variable frequency controllers and converters.

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